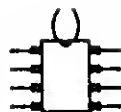


South Bay Users Group

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DYNAMIC MEMORIES

VIVA
COMPUTERS

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LOOK AND PAY ATTENTION!

Our next SBUG Meeting will be held at the Saratoga Library. The address is 13650 Saratoga Avenue, Saratoga, CA.

DATE: TUESDAY, OCTOBER 13th
TIME: 7:15 P.M.

Our November meeting will be on Tuesday, the 10th. The last meeting of 1987 will then be in December. The date will be on Tuesday, the 8th. So make a note of these dates and we hope to see you all at these meetings.

PROGRAM FOR OCTOBER

This is a continuation of last month's topic about REES. This month Chris Oman will talk about up- and downloading of files. Frank Vanslager will give a short demo of 3 utility programs: WAITASEC; DR; & KEYFAKE. BRING YOUR DISK (MS DOS FORMAT) FOR A TAKE HOME COPY.

MEMBERSHIP INFORMATION

If you wish to become a member of SBUG and start receiving our newsletter DYNAMIC MEMORIES then send a \$20 check or money order to the following address:

SOUTH BAY USERS GROUP
P.O. BOX 60116
Sunnyvale, CA 94088

Or come to one of our meetings. We also perpetrate a bulletin board to which you will have access as a member of SBUG.

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SBUG STEERING COMMITTEE

| TITLE | NAME | USER NAME | PHONE |
|-----------------------|-----------------|-----------|----------------|
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| Treasurer: | Henry Schulzs | HENRY | (408) 379-9474 |
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| Sysop: | Jim Gonsalves | MANGR | (408) 241-9347 |

OTHER KEY INDIVIDUALS

Host computer: SBUG ALL (408) 249-8259

If the need arises, feel free to give anyone of us a call.

THE TEMPORARY EDITORS REMARKS

Well, our illustrious Editor, Joel, went on another well-deserved vacation for a few weeks and therefore it's up to us to fill the void, again. At least it's only for this one issue. Anyway, we hope Joel had a good time and will be all rested and anxious to take over his old "duties".

At the upcoming meeting we will have a lecture about uploading and downloading of files on the bulletin board. In addition to that we possibly may get a demonstration of an integrated program called "VISI ON". This program will also be available for purchase by our members for a very reasonable price. More information about this elsewhere in this issue.

SBUG Financial Statement
September 20, 1987

| Receipts: | September Y-T-Data | | % Used | Budget |
|-----------------------|--------------------|----------------|---------------|----------------|
| Members dues | 40.00 | 450.00 | 45.00% | 1000.00 |
| Disk Library | 0.00 | 52.00 | 34.67% | 150.00 |
| Load80 | 40.00 | 381.00 | 127.00% | 300.00 |
| Documentation | 0.00 | .00 | .00% | 24.00 |
| Intersat | 3.61 | 13.21 | 132.10% | 10.00 |
| Miscellaneous | 0.00 | 209.80 | 104.90% | 200.00 |
| Total Receipts | 83.61 | 1106.01 | 65.68% | 1684.00 |

Disbursements:

| | | | | |
|----------------------------|--------------|---------------|---------------|----------------|
| Phone | 9.04 | 68.99 | 67.64% | 102.00 |
| Utilities | 0.00 | 90.00 | 50.00% | 180.00 |
| Printing | 0.00 | 231.69 | 42.91% | 540.00 |
| Postage | 0.00 | 66.00 | 45.83% | 144.00 |
| P O Box | 0.00 | 29.00 | 111.54% | 26.00 |
| Bank charges | 6.00 | 38.00 | 158.33% | 24.00 |
| Disk Library | 0.00 | .00 | .00% | 120.00 |
| Documentation | 0.00 | 10.00 | 20.00% | 50.00 |
| Load80 Subscription | 0.00 | 149.95 | 74.98% | 200.00 |
| SBUG BBS Repairs | 0.00 | .00 | .00% | 100.00 |
| Misc. Expenses | 0.00 | 94.00 | 75.20% | 125.00 |
| Total Disbursements | 15.04 | 777.63 | 48.27% | 1611.00 |
| Beginning Cash Balance | 574.12 | 314.31 | 100.00% | 314.31 |
| Net Receipts | 68.57 | 328.38 | 449.84% | 73.00 |
| Ending Balance | 642.69 | 642.69 | 165.94% | 387.31 |

Complete copies (some labled demo) of 4 VISI CORP items are available for just \$5.00. They are Applications Manager, Graph, Calc and Word full documentation and disketts in binder. Requires a hard disk and mouse for proper operation.

Excess of unmatched disketts and empty binders will be later available at an extreemly low cost. Place you order for sets to be at the meeting with Chris Oman. The \$5.00 donation will be used for meeting club expenses.

SUPERMEM/SUPERDRIVE IN MODEL III

by Frank Gottschalk

I had two Model III's and recently acquired a Model 4 to keep the Model III's in the office and back them up with the Model 4 at home. Increasing volumes of work in Superscript with its dictionary, along with the Invoicing Program in Profile III+ meant too much time wasted saving to disks, swapping disks, and reloading Superscript files, programs and invoicing in between.

I considered new machines for lots of money, new programs for some more money, and lots of time to learn them all, (cost me \$1,000 and several months to try Wordstar a couple years ago). I decided to stick with the Model III's and 4.

The goal was to speed up the operation, minimize disk swapping, and keep their operation simple, without lots of money.

The first step was to expand the drives to double sided and a DOS to run them. Between the assortment I had collected, some good fortune at work, and lots of help from many club members, I accumulated a third Model III for \$50 to experiment on, eight double sided drives for \$100, the 5.3 update to LDOS to drive them for \$25.

I subsequently learned I needed a different version of Superscript and the Profile III+HD version to run in LDOS. The copy of Profile III+HD I had had garbage in one file and wouldn't run. After many phone calls, trips, and lots more help from club members, I learned how to install the drives (really easy now), got corrected files and versions of needed programs and even ended up with a Superscript program that will run DOS commands without having to Exit and reload it!

Best of all, after stripping unneeded files, it all fit on the two double sided drives and left more working space for user files than I had before. The Key Stroke Multiplier in LDOS is a big help and TED (text editor) makes it easy to modify the various JCL files now set up.

This all cut down on the disk swapping required, but still wasted lots of time loading and unloading all the programs. Still needed a fast large drive. Buy three or four hard drives for \$300-600 each plus controllers for another \$500 each from Radio Shack? And have more add-on boxes? No thanks, decided to try these Supermemory boards and make a Superdrive in RAM.

I bought two for the Model III's and one for the Model 4 along with Memory Test program, as well as the Superdrive program, everything complete for \$720 plus some Utility Programs I haven't used yet.

Now the tricky part. After reading the instructions and getting serious advice from several club members, all warning me that if I did the trace cutting involved, Radio Shack would no longer service my machine if it didn't work or I messed up. Well for the cost of one memory set and a \$50 experimental Model III, I thought I'd try it.

The instructions were very clear, but I would change the order a little. The hardest part was lifting one leg of some 30 tiny capacitors around the memory banks. I decided to do this, rather than cut them out, in case I wanted to put them back. Even then I busted some of them. I kept the trace cutting to a minimum (4 or 5) by using the alternate method of installing the memory chips, thanks to the advice of another club member. The alternate method is to bend up all pin 9's on the chips and buss them all together above board. I practiced on some old chips first, and felt confident before I started. It worked just fine, using adequate static protection.

The mounting of the piggyback memory board was simple, except for getting the Z-80 in the new socket without bending any pins, but it went okay. The soldering of the ten leads was a little tricky in spots, but next time I'll change the order a little to avoid having to solder in between previous joints and/or solder them all on the solder side of the board and tape them all down good for vibration protection.

Well it was time for the first step test. I cautiously plugged in the machine and turned it on expecting a puff of smoke. Hurray, NO SMOKE! Booted up the system and it worked! Put in the test program and it spit out the numbers just like the instructions said it should!

Next step is to add the balance of the memory chips, bending up all the #9 pins, and bussing them together with the first bank. It all went fine. Now the ultimate full memory test. Again NO SMOKE! and the test went through all 768K bytes (current limit in Model III) four times without a hitch. It was working!

Now to install the Superdrive. Well I plugged in the disk and called it up but it stopped and told me it required LDOS 5.1 or TRSDOS 6, even though the label said it would work with LDOS 5.3. A phone call the next morning, after little sleep, to the program developers brought a surprised "don't know why" response. Made arrangements to send them my disk with LDOS 5.3 on it and the Superdrive program copied on to it. A week or so later, I got it back with a note that I neglected to tell them I had converted to double-sided drives. They also fixed it up so it would automatically copy my files into Superdrive and then make it drive :0 system drive. Now I was all set.

I quickly plugged it in and it worked beautifully. I loaded in all my programs and removed my disks. It flashed back and forth between programs and proofread documents quickly instead of all the disk grinding. A quick writing of an auto load program now makes booting simple. Put boot disks in both drives and reset. It comes up eventually with all my needed programs in a fast 720K System Drive :0 and goes right into Superscript.

I said eventually because it takes 11 minutes to load my 520K of programs and get to Superscript. It takes so long because all the loading is done file by file because LDOS won't make a mirror image backup because my boot disks are double sided and Superdrive is formatted as single sided with the directory on track one. Anyone know how to speed this up?

All in all I'm happy as a clam. For \$300 each, six hours of work, no relearning time, and lots of help from several club members, I've got a 720K system RAMDRIVE that is FAST and does all I need it to do with Superscript, fast dictionary, and an invoice program. At the end of the day, two keys and two minutes run time hack up all new and modified programs worked on during the day. This is A MUST! If shutdown without saving to disk, all will be lost! Likewise, unfortunately, all is lost during a power failure if more than a short flicker. There is a Supermemory recovery command if the power outage is short enough or the reset button is depressed quickly enough if required after a system hangup.

I've since done the second Model III, which turned out to have a bad PAL chip that they replaced, but ultimately with equally good results and will soon modify my Model 4 which will be two to three times as fast with the speedup kit also installed.

SBUG BULLETIN BOARD SYSTEM

RBBS-PC VERSION CPC14.1D OPERATING INSTRUCTIONS BY CHRIS OMAN
PART 2 FILE UPLOADING AND DOWNLOADING PROCEDURES

This is a follow-on article that was published in the Aug. 87 issue of SBUG Newsletter. In the first article, I covered the basics of using the SBUG Remote bulletin Board System (RBBS). In this article, I will cover some of the advanced features of SBUG which concentrate on uploading and downloading files to the SBUG RBBS. I will start this with a bit of refresher from my previous RBBS article just in case you don't know where your August newsletter is. That way you can pick this up and start running with it on the SBUG RBBS system. I will repeat some of my previous information due to it's importance in getting your computer software configured correctly for the downloading and uploading process. During the next few paragraphs, I will try to briefly describe how the latest version of the SBUG Club RBBS software works. I will also try to provide in these instructions, the user menus that will appear on the screen as you "log onto the SBUG RBBS System". Some of these user menus will differ a little from what you will see on the screen, but it should at least get the idea across of how the SBUG RBBS system works. Hopefully, this will assist the club members in their use of SBUG. Also it should provide the SBUG users with some "telecommunications" experience. Please remember, if you don't try using the system, you will not learn how to use it effectively. Give it a try and you will be "up and running" in short order.

Additional features of the SBUG RBBS allow the following. A telecommunications system that will allow you to call the Remote Bulletin Board System (RBBS), read any pertinent messages to you as a SBUG Club member, and leave messages for any other SBUG member to read at a later date. It will also allow you to "upload and download" software (computer programs and data files) to the RBBS system. This is a very handy feature and is used by the SBUG Club membership to provide inputs for the newsletter, leave messages for other club members, and discuss other club related events. This message function is often known as "Electronic Mail".

To get started with SBUG RBBS system, perform the following steps. You should turn on the computer, load the operating system, and configure your communications software for your particular system or equipment. This configuration process should be listed in the communications software manual. You will need to also set your communications parameters in your software to take full advantage of SBUG RBBS features. These settings include 300 or 1200 Baud, 8 bit word length, no parity, 1 stop bit, 1 start bit if requested.

NOTE:

If you set 7 bit word length, even parity, and 1 stop bit, the SBUG RBBS software system will detect these parameters, allow message handling but will not allow the "Xmodem" upload / download

features for file transfer with error detection / correction. If you want to upload and download files, make sure that you use the 8 bit word, no parity, 1 stop bit parameters. The baud rate may be either 300, 1200 or 2400 baud (available in the near future). If you can use 1200 baud capability with your modem, the RBBS system will respond 4 times faster than 300 baud. ** Some of the previous listed software, (LCOMM, TRSDOS COMM), will not support "XMODEM" file transfer without improved communications software. Modem-80 and MicroLink II will work fine for file transfers. Logical Systems Incorporated has a communications package called "BOST / TERM" which supports all these features with TRSDOS 6 on the TRS-80 Model IV Computer.

When you have configured the communications software for the above parameters, you are ready to place the call to SBUG. If you follow the instructions in your communications software manual, you should be instructed to place the call to the communications Bost (SBUG RBBS) . The following instructions will provide "log-on" information for SBUG.

You should see the follow information on your computer screen:

You should see the word "connect" displayed on your computer screen. This tells you that your computer has detected the carrier signal produced by the "Host" computer modem (SBUG RBBS), after it answers the phone call from you. If this is the case, press the [ENTER] key 2 or 3 times. This will allow the SBUG RBBS system to detect what baud rate, etc. that you have setup on your computer system. Next, you should see the following prompts appear on you screen. I have also entered the appropriate "log-on" information for myself to access the SBUG RBBS system. These are my unique "log-on" parameters. You should enter your name and password information that apply to you as a club member.

DISPLAYS ON SCREEN
SBUG RBBS PROMPTS

What is your FIRST Name?

What is your LAST Name?

Checking Users....

Enter Password (dots will echo)?.....

Granted access level 4

Logging CHRIS OMAN

YOU NEED TO TYPE OR ENTER
INFORMATION AS REQUESTED!

Chris (lower case-OK)

Oman (lower case-OK)

type your assigned password

This gives your access level for use. You do not enter any response for this (access level controlled by SYSOP OP.)

This means the System has allowed you access to the SBUG RBBS.

If this is the first time that you have log onto the system, it will also ask (Prompt), you for some additional information like address and phone number. This is so the System Operator (SYSOP) can contact

Late Breaking News,

On 13 Oct., yes the same day as the club meeting, the Radio Shack computer center in San Mateo is having a warehouse clearance sale.

The clearance sale will be publically announced to start on the 15th but will be open to Radio Shack customers starting on the 13th.

The address is 329 S. Ellsworth. If you take 101 north, take the 3rd ave. exit. Proceed straight for 3 stop lights. Then turn left on Ellsworth. Proceed to 329! This may be a chance for some excellent buys.

Chris

Checking messages.
Mail may be for YOU (*=Private)
*21 Message Number

-----SBUG RBBS MAIN MENU-----

| PERS. COMM. | UTILITIES | ELSEWHERE |
|------------------|------------------------------|-----------------|
| B)ulletins | O)perator H)elp | D)oops N/A Yet |
| C)omments | P)ersonal mail | L)ines per page |
| E)nter messege | Q)uick scan X)pert on/off | F)iles system |
| I)ntial welcome | R)ead messages | G)oodbye |
| J)oin Conference | S)can messages | ?)Functions |
| K)ill message | V)iew Conference | U)tilities |
| | W)ho's on other node | |

Main Functions <B,C,D,E,F,G,H,I,J,K,L,O,P,Q,R,S,U,V,W,X,??> __ F

In this case, the letter "f" is selected. this will now take me to the Files section of the RBBS system. This will allow the options to "upload" (send) or "download" (receive) e file to SBUG. From the "Files Menu", I hevs the options not only to upload end download, but to elso list what files ere on the RBBS. Also I cen get e brief description of whet the files ere for. I will step you the proper process of "downloading" a file. There ere several weys that a file cen be uploed or downloed. The below listing includes the most common weys with e brief description of what each method is for.

ASCII This is e straight uploed or downloed of text information. It does not include error checking so some errors may occur during the data trensfer. This should not be used to trensfer eny files other then maybe text for documents.

Xmodem Thie ellows for file trensfer with error checking. It is used with most communication software packages. During the file trensfer, the file is sent ons line (128 bytes) et e time. At the end of eech line, e check sum count is sent to the receiving computer. Ths received line is processed for e check sum velue end is compared with the check sum thet wes trensmitted by the sending computer. If the two check sums ere equal, then the receiving computer tells the sending computer to send enother line of dete. If the check sums do not match, the receiving computer telle the trensmitting computer to resend the line of date. this is repeated until the complete file is trensmitted or ten trensmission ettempts on the seme line of date. If the line of dete cannot be sent correctly efter ten ettempts, the file trensmission is terminated. This method usuelly works well unless the trensmission linas or modem signal processing circuitry is noisy.

Xmodem CRC This method is similar to above but uses improved methods to ensure data transmission integrity. It is also a faster method of data transmission but not all communication software supports these functions. This method is preferred over plain Xmodem if it is available.

Kermit This is one of the latest methods of data transmission. Because it is new, only the most current communication software supports this method. It is regarded very highly in the telecommunication industry due to some advanced features and data transmission accuracy.

Now that I have briefly discussed the file transmission methods, I will now show what the "File Menu" looks like.

```

-----FILE MENU -----
D)ownload a file    B)elp            L)ist files      N)ew filea
D)pload a file      S)earch          X)pert          ?)Xfer info

-----ELSEWHERE-----
G)oodbye            Q)uit to main menu

```

File Function <D,G,B,L,N,Q,S,U,X,> L list file actions

You are now taken to the file type action. This will now show the different areas that contain different types of files that may be available for downloading. The reason that I say "may be available" is due to what access level that you now hold on SBUG. If you have just logged in as a new user, the SYSOP may not have had time to upgrade your access level for file downloading. If you have logged on to SBUG in the recent past, then chances are that the SYSOP has set your access to the proper level for access. If you do not have proper access, you may need to wait a day or so for the SYSOP to upgrade your access level. It would be a good idea to leave the SYSOP a message so he will know to upgrade your access. One other stipulation to access is that you must be a valid member of SBUG. That means that you have paid your dues and they are current for this year.

The Files section directory contains files in the following areas. The Files area directory is listed below.

```

=====SBUG BBS FILE DIRECTORY=====
DIR CONTENTS    DIR CONTENTS    DIR CONTENTS    DIR CONTENTS
---
1    GENERAL      6    COMM.           11   FOR SALE      16
2    UTILITIES    7    GRAPHICS        12   RBBS-PC        17
3    MS-DOS       8    DATA BASE      13   TAX PGMS.      18
4    TRS-80       9    WORD PROC      14                  19
5                10   TIPS/INFO      15                  20

```

To view these directories use a command of: L;X

Where X is the directory number you wish to review.
This command may be stacked L;X;X;X;X

Now get a directory listing printout by turning on the "print echo" function of your communications software. Most communications software packages allow the function.

Once you have a listing of the programs available for downloading, you have a reference to pick from for actual use. Now that you have found at least one file to download, you are ready to setup your system for the download process.

You should be in the current menu (files) to start the process. I have included the proper menu below for your reference.

Before we actually start the download process, I want to list the actual steps involved. Also I will include some "food" for thought to help you through the process. During the download process, the host computer (SBUG), will read the file to be sent from its secondary storage (hard disk), then it will send your computer the file for storage. Your computer will first accept the file in parts (blocks), into main memory and then after it has received so many blocks of the file, it will save the file blocks out to a disk file. Therefore, you need to have some disk space available for storage of the incoming file. I recommend that you have a empty formatted disk in the drive that you plan to save the incoming file to. It is always better to have some extra disk space left over than to run out during the file transfer.

During the selection process you tell the host computer what file you want sent, the host checks to see if the file is actually available for transmission. Once this is done, the host system will prompt you for what method you want the file to be sent to your system. This will be one of the transmission types that I have described earlier. Examples of this include: ASCII (text), Xmodem, Kermit, etc. I recommend that you use Xmodem CRC, if your communications software supports it. If not, your next choice is plain Xmodem. Be careful if you select Kermit for transmission. Some of the Kermit programs don't have all the bugs worked out yet so it may terminate in the middle of the transmission. Now that you have selected a transmission method, the host computer will wait for your computer to send it a signal to start the transmission. This is where you give your computer the proper commands to tell it to get ready to receive a file. Your computer will also prompt you for the transmission method, it should be the same as what you selected on the host system. Then your computer will tell the host to start sending the file data. When your computer accepts the file blocks for storage to disk, it must tell the host computer to stop sending while your computer is storing the data it has received. Once your computer has written the data to disk, it tells the host to resume the file transmission. This process is repeated until the complete file is process.

Below I have included the SBUG menus so you can follow the process.

```
-----FILE MENU-----
D)ownload a file      H)elp                L)ist files        N)ew files
U)pload a file        S)earch                X)pert            ?)Xfer info
```

```
-----ELSEWHERE-----
G)oodbye              Q)uit to main menu
```

File Function <D,G,B,L,N,Q,S,U,X,?> D Selects the download process.

Enter the full filename(s) to download? _____ Ex. arc512.exe
Select download method! Xmodem CRC

Now the RBBS will tell the file is ready for transmission.

<Ctrl K> or <Ctrl X> aborts transmission <Ctrl S> Suspends

At this prompt, select the commands for your software to receive the file. This will also include file name and transmission method. Once this is set, the file download will proceed as previously described. You may next be shown the file size and the length of time that it will take to download the file. Once the file transfer has occurred, you will be returned to the files menu for another selection of your choice. Either select another file for downloading, select the upload process if you have a file to send to SBUG or quit. You also have the option of exiting SBUG RBBS.

Now for the sequence of the uploading process. This is very similar to the downloading process. The main difference is that you will be sending a file to the SBUG RBBS Host. Since you desire to upload the file, you will need to initiate the steps required for the process. The items that you need to know for this process include the transmission file name, method of transmission and a brief description of what the file does. First you must select the upload process at the files menu. SBUG will then prompt you for the transmission method. Finally SBUG will tell you that it is ready to receive the file. At the SBUG ready prompt, you must now tell your software that you want to upload a file. Provide the desired file name, then select the transmission method. At this point, your computer should start sending the file to SBUG. One point to remember in this process is that SBUG has a "timeout" period for the file to start being transmitted. It is about 1 minute from the time it prompts you with the SBUG ready. The first time that you try a upload process, may not be successful due to this timeout sequence. If this happens, the best thing to do is start the upload process over again until you are successful. Remember to be patient and do it till you get it right. I have included the selection process below but you will probably not need it.

```

-----FILE MENU-----
D)ownload a file      H)elp                L)ist files          N)ew files
U)pload a file        S)earch              X)pert              ?)Xfer info

```

```

-----ELSEWHERE-----
G)oodbye              Q)uit to main menu

```

File Function <D,G,H,L,N,Q,S,U,X,?> U Selects the upload process.

Enter the full filename(s) to upload? _____ Ex. arc512.exe
 Select upload method! Xmodem CRC

Now the RBBS will tell you the file is ready to be received.

<Ctrl K> or <Ctrl X> aborts transmission <Ctrl S> Suspends

At this point select the proper options on your computer to start the transmission process. You will be prompted for filename and transmission method. Once this is provided, the file transmission should start automatically. When the transmission is completed, SBUG should return you to the File menu for another selection. You may upload another file, download a file, quit to Main menu or end the communications process with goodbye.

This has been a brief introduction to using the Files section of SBUG RBBS. It is a little tricky so make sure that a step-by-step sequence is followed to guide you through the process of downloading and uploading.

I hope this has been worthwhile and provided a better understanding of SBUG. Give SBUG a try using the electronic mail and file manipulation processes. Don't be too surprised if you miss a selection and end up with your computer communications software hung-up. If you don't follow the sequences correctly, your software may be waiting for a file to be uploaded or down-loaded that you have not selected on SBUG. If this happens, you may need to reboot and reset the parameters to log back onto SBUG. I have made this error on occasion but it doesn't hurt anything except your pride and only the computer knows that you made a error. Luckily, computers can be forgiving to human errors. As usual, remember that garbage in also gets garbage out.

Good luck on your adventures in computer communications.

Regards,
 Chris

PRIOR ISSUES OF THE 80MICRO MAGAZINE AVAILABLE FROM ED HOOVER
 PHONE 415 961 3410---He may bring them to the OCTOBER MEETING.

Exerpts prepared by Bernie Thompson

From an article by Lewis Perdue in Computer Currents, the following guidelines will assist in setting up a system with with an AUTOEXEC.BAT and CONFIG.SYS files.

In the root directory there should be a file CONFIG.SYS which has:

```
FILES=24      (up to 255, DDS default is 8)
BUFFERS=24    (up to 99 permitted)
DEVICE=MOUSE.SYS (if you have a mouse)
DEVICE=EMM.SYS M3 16 (for extended memory Intel
                    board where 'M' and 'I' define system details)
DEVICE=LS380.SYS (for Princeton LS380 graphics)
DEVICE=ANSI.SYS (for enhanced keyboard and
                screen ! required by SuperKey from Borland)
STACKS=64,128 (fixes a bug in DDS 3.2)
```

In your AUTOEXEC.BAT you can set appearance of the prompt, ROM resident software, date & time, and any other desired options. Lewis uses:

```
PATH ----;\ (where ---- is the DDS directory)
PROMPT $p$q (displays the current directory)
VER          (displays DDS version)
CHKDSK       (shows file or cluster problems)
TIME         (set)
DATE         (set)
SK           (a batch within a batch) where
              SK.BAT is:
                  CD\sideKick
                  SK
                  CD\
```

Note: DDS format command does not work when Sidekick is in memory.

Requests for informantion on previous articles may be addressed to Lewis Perdue, 1200 Mt. Diablo Blvd #303, Walnut Creek, CA 94596 (provide SASE for replies) (415-935-1950) Compuserve 72446,2646

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